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Applicant	JRM P10-1 (EV. 6-89)	TOP'S	BAREMART			Attorney's Docket No. 22353-		Serial No. 09/9	915,939
Document Number Date Name Class Subclass Filing Date KM A 6,014,712 01/11/00 Islam et al. 709 246 KM B 5,966,385 10/12/99 Fujii et al. 370 465 KM C 5,633,871 05/27/97 Bloks 370 471	INF	ORMA	TION DISCL	OSURE CITATIO	N	Applicant	Amit P.		OAJON
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Application No.	09/915,939	· · · · · · · · · · · · · · · · · · ·		
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						Art Unit	2661			
						Examiner Name	Not Yet Known			
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			U.S. PAT	ENT DOCUMENTS
		Document No.		
Examiner Initials*	Cite No.	Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or
KN		US-8,100,824	08/08/00	MacLeod et al.
KM		US-5,867,114	02/02/99	Barbir
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	FOREIGN PATENT DOCUMENTS							
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	U.S. PATENT DOCUMENTS						
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Examiner Initials*	Cite No.1	Number – Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Documen OCT 1 1 2002			
KM		US-5,996,022	11/30/1999	Krueger, et al.			
		US-		Technology Center 2600			
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FOREIGN PATENT DOCUMENTS						
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Substitute for form 1449A/PTO BADEMA Complete if Known Application No. 09/915,939 **INFORMATION DISCLOSURE** Filing Date July 25, 2001 STATEMENT BY APPLICANT First Named Inventor Amit P. Singh Art Unit 2661 **Examiner Name** Not yet known Sheet **Attorney Docket Number** of 22353-04995

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Examiner Initials*	Cite No.1	Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY		Name of Patentee or Applicant of Cited Document
KIN.		US-2002/0044553 A1	04/18/2002	Chakravorty	Technology Center 26
KM		US-6.351,465 B1	02/26/2002	Han	
KM		US-6,339,595 B1	01/15/2002	Rekhter, et al.	

	FOREIGN PATENT DOCUMENTS							
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			U.S. PAT	ENT DOCUMENTS
		Document No.		
Examiner Initials*	Cite No.1	Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
KM		US-6,584,093	08-24-2003	Salama et al.
KM		US-6,498,809	12-24-2002	Dean et al.
KM		US-6,456,209	09-24-2004	Savari
KM		US-5,887,114	02-02-1999	Barbir
Kin		US-5,307,413	04-26-1994	Denzer
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			FOREIGN PATENT	OCUMENTS	
		Foreign Patent Document			
Examiner Initials*	Cite No.1	Country Code ³ – Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T°

Examiner Initials*	Cite No.1	OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, megazine, journal, senal, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T⁰
		OBAIDAT, M.S., et al., "Verification of Computer User Using Keystroke Dynamics," IEEE Transactions on Systems, Man, and Cybernetics – Part B: Cybernetics, vol. 27, no. 2, pp. 261-269, April 1997.	

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Application No.	09/915,939	-
Filing Date	July 25, 2001	
First Named Inventor	Amit P. Singh	···
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Examiner Name	Not Yet Known	
Attorney Docket Number	22353-04995	

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Examiner Initials*	Cite No.1	Number – Kind Code ² (if known)	Date MM-DD-YYYY	. Name of Patentee or Applicant of Cited Document
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Examiner Initials*	Cite No.1	Country Code ³ – Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	⊤⁵

Examiner	Cite	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine,					
Initials*	No.'	journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	₽°				
KM	C1 .	LIU, Z. et al., "Scalable Robust Efficient Dictionary-Based Compression (SCRIBE), March 22, 2001, [online] [Retrieved on					
	C2	February 21, 2005] Retrieved from the Internet <url:http: draft-liu-rohc-scribe-00.bd="" id="" pub="" www.watersprings.org=""></url:http:>	┞				
		NEVILL-MANNING, C. et al., "Compression And Explanation Using Hierarchical Grammars," The Computer Journal, 1997, pp. 103-116, Vol. 40, No. 2/3.					
	ය	NEVILL-MANNING, C. et al., "Identifying Hierarchical Structure In Sequences: A Linear-Time Algorithm," Journal of Artificial					
	C4	Intelligence Research, September 1997, pp. 67-82, Vol. 7.	 				
- 1	1	NEVILL-MANNING, C. et al., "Linear Time, Incremental Hierarchy Inference For Compression," Data Compression					
		Conference, 1997, DCC '97, Proceedings Snowbird, March 25-271997, Los Alamitos, CA, USA, IEEE Comput. Soc., March					
	<u> </u>	25, 1997, pp. 3-11.					
ı	C5	NEVILL-MANNING, C. et al., "Phrase Hierarchy Inference And Compression In Bounded Space," Data Compression					
- 1		Conference, 1998, DCC '98, Proceedings Snowbird, March 1-April 1998, Los Alamitos, CA, USA, IEEE Comput. Soc.,					
ı		March 30, 1998, pp. 179-188.	İ				
V	C6	Supplementary European Search Report of European Application No. 01955862.6, February 22, 2005, 3 pages.					
			 				
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BE TRA Substitute for form 1449A/PTO Complete if Known Application No. 09/915,939 INFORMATION DISCLOSURE Filing Date July 25, 2001 STATEMENT BY APPLICANT First Named Inventor Amit P. Singh Art Unit 2661 **Examiner Name** Not Yet Known Sheet of **Attorney Docket Number** 22353-04995

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Examiner Initials*	Cite No.1	Number - Kind Code ² (if known)	Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
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Examiner Initials*	Cite No.1	Country Code ³ – Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	τ•
	B1	WO 00/07124	02-10-2000	Cacheflow, Inc.	
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		OTHER REFERENCES – NON-PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T⁵
Kin	C1	BANGA, G. et al., "Optimistic Deltas For WWW Latency Reduction," 1997 Annual Technical Conference, Usenix Association, 1997, pp. 289-303.	
1	C2	CHI, C. et al., "Compression Proxy Server: Design And Implementation," Proceedings Of USITS'99: The 2 nd USENIX Symposium On Internet Technologies & Systems, The Usenix Association, October 11-14, 1999, 13 pages.	
	СЗ	Communication, EP 01959237.7, June 9, 2005, 5 pages.	
	C4	HEYWOOD, P., "Compression And Routers, Together At Last," International News Analysis, Data Communications, April 24, 1995, pp. 55-56, 61-63, No. 5.	
	C5	NAND, A. et al., "Mail Servers With Embedded Data Compression Mechanism," IEEE, 1998, p. 568.	1
,	C6	NEVILL-MANNING, C. et al., "Compression And Explanation Using Hierarchical Grammars," The Computer Journal, 1997, pp. 103-116, Vol. 40.	T
V^{-}	C7	SHEU, S. et al., "A Link Level Compression Strategy For High-Speed Backbone ATM Networks," pp. 1-5.	

Examiner Signature Musika	Date Considered	19/26/05
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